No.



9500077

# THATER TONITATERD) SARANTES: ODERANTERRI (CA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Aobartis Seeds, Inc.

MOTORS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS. A COPY OF WHICH IS HEREONTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAWIN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANI(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF EIGHTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FIRES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION (84 STAT, 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ALFALFA

'Rushmore'

In Testimony Aberrof, I have hereunto set my hand and caused the seal of the Hant Harirtu Hrotertion Office to be affixed at the City of Washington, D.C. this twenty-eighth day of Whoy in the year of our Lord

one thousand stree hundred and

Product Manager

CAPACITY OR TITLE

0

SIGNATURE OF APPLICANT [Owner(s)]

January 3, 1995

DATE

## Exhibit A. Origin and Breeding History of the Variety.

Rushmore is a synthetic variety with 214 parent plants. Parent plants were selected for forage yield, persistence, fall dormancy reaction, and forage quality from one or two year old Wisconsin nurseries. Parents trace to breeding populations selected for multifoliolate expression and resistance to one or more of the following pests: bacterial wilt, Verticillium wilt, anthracnose (race 1), Phytophthora root rot, Aphanomyces root rot (race 1), Leptosphaerulina leafspot, pea aphid, and spotted alfalfa aphid. Recurrent phenotypic selection was used. The following sources were used in the development of Rushmore (% contribution): Blazer XL (30%), Prism (20%), DK 133 (20%), Encore (15%), GH 777 (10%) and Pacesetter (5%). Breeder seed was harvested (Syn 1) was produced near Caldwell, Idaho in 1991. Seed was harvested in total on all parents and bulked to form the breeder seed. Syn 2 generation seed of Rushmore was produced in 1992; characteristics observed in this generation did not differ significantly from those observed in the Syn 1 generation.

Pacesetter is a synthetic variety with 86 parents selected for multifoliolate expression, winter-hardiness in a 3-year-old Wisconsin nursery, and resistance to one or more of the following pests: bacterial wilt, Verticillium wilt, anthracnose (race 1), Phytophthora root rot, Leptosphaerulina leafspot, and spotted alfalfa aphid. The following germplasm sources were used in the development of Pacesetter. DK 122 (30%), Crown II (20%), Multi-plier (20%), 2833 (10%), G2841 (10%), Olds 98 (10%). Breeder seed (Syn 1) was produced in cage isolation in 1988. Pacesetter received favorable review from the National Alfalfa Variety Review Board in 1991 and its attributes are documented in its April 1992 record (copy attached).

sic 8 d in one ms. ms. ms. ms. ms.

## Exhibit B. Novelty Statement.

Rushmore is novel due to its combination of characteristics and distinctness from the most similar alfalfa variety. The variety most similar to Rushmore is '330'. Rushmore is distinct from '330' in the following characters:

1. Spotted alfalfa aphid resistance-- Rushmore is highly resistant (HR) whereas, '300' is resistant (R).

Spotted alfalfa aphid resistance test (Forage Genetics, 1992):

Variety	Unadjusted % Resistance	Adjusted %R	NAVRB class
Rushmore	69	65	HR
330	42	40	R
Baker	53	50	R
Ranger	4	4	S
Test mean	56.9		
L.S.D. (0.05)	16.2		
C.V. (%)	19.8		

2. Aphanomyces root rot resistance (race 1)-- Rushmore is highly resistant (HR) whereas, '300' is resistant (R).

Aphanomyces root rot resistance (race 1) test (Forage Genetics, 1992):

Variety	Unadjusted % Resistance	Adjusted %R	NAVRB class
Rushmore	47	54	HR
330	39	46	R
WAPH-1	43	50	R
Agate	2	2	Ś
Test mean	38.9		
L.S.D. (0.05)	10.3	4	
C.V. (%)	27.6		

Nov. 18, 1992 Nampa, ID Forage Genetics test for Spotted Alfalfa Aphid Resistance.

Unadjusted %R		Adjusted	%R NAVRB Class
Rushmore	67.0	60.9	HR
330	39.5	35.9	R
Cuf-101	66.0	60.0	HR
Ranger	3.5	3.2	HR
Test Mean LSD (0.05) C.V.	51.1 15.4 19.2		•

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK AND SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

## OBJECTIVE DESCRIPTION OF VARIETY ALFALFA (Medicago sativa sensu Gunn et al.)

		ALIALIAI	invedicago sativa seri		-1		<del></del>	
NAME OF APPLICANT(S)		•	TEMPORARY C	ESIGNATION	VARIETY NAME			
Northrup King Co.			4J16		Rushmo	Rushmore		
ADDRESS (Street and No., or R.F.D. No.	o. City State and Z	io Code)		-	F	OR OFFICIAL USE ONLY	1	
7500 Olson Memori		•	•		PVPO NUMBER			
Golden Valley, MN	_					~ F ~ ^ ^ <b>7</b>		
		•				<u>9500077</u>		
PLEASE READ ALL INSTRUCTION application variety. Data for quant titative data. Comparative data showned to the Munsell Plant Tissue Color	itative(plant charac uld be determined	cters should be based o	on a minimum of 10	00 plants. Include le	eading zeros when ne	cessary (e.g., 0 8	9 ) for quan-	
1, WINTERHARDINESS:		of 9, 10%						
3 = 5 = 7 = 9 =	: (Du Puits) : (Ranger) : Extremely Winterha	rdy (CUF 101) -Winterhardy (Mesilla)	4 = Serni-Winteri 6 = Moderately \ 8 = Winterhardy	ardy (Moapa 69) nardy (Lahontan) Winterhardy (Saranac) (Vernal)				
	ST LUCATION:	vese baremy						
2. FALL DORMANCY:	F	ALL DORMANCY (D	ETERMINED FRO	M SPACED PLANT	TINGS)			
				REGROWTH SCORE	OR AVERAGE HEIG	-1T		
TESTING INSTITUTION	DATE OF	DATE REGROWTH	APPLICATION		CHECK VARIETIE	s*	LSD .05	
AND LOCATION	LAST CUT	SCORED	VARIETY	Vernal	Ranger	Sarange		
Forage Genetics						Sauni -		
West Salem, WI	9/1/92	10/5/92	8.00	5.20	7.40	8.50	0.59	
5 Fall Growth Habit (Determ	nches of r	regrowth nancy Triels) 3 = Sen	eman as appropriate.  nierect (Mesilla)  rumbent (Norseman)	5 = Intermedia	ate (Saranac)		~	
3. RECOVERY AFTER FIRST SPRING	G CUT (In Southwest	, first cut after March 21	):					
1 = Very Fas	t (CUF 101) w (Norseman)		t (Saranac)	5 ≃ Intermedia	nte (Ranger)	7 = Slow (Vernal)		
4. AREAS OF ADAPTATION IN U.S. (	Where tested and pro	oven adapted):					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Primary Area of Adaptatio	•			2 6 0	other Areas of Adaptati	on		
-	ntral !y Winterhardy Inter lecify)	2 = East Central mountain	3 = Sc 6 = Winterhardy Int	outheast ermountain	4 = Southwest 5 7 = Great Plains		3	
5. FLOWERING DATE (When 10% of s	plants possess open fl	owers at time of first spri	ing cut):					
O 2 Days Earlier Than Same As	<del>'</del>	1 = CU	F 101	2 = Mesilla	3 = Saranac	4 = Vernal 5 = 1	lorseman	
Days Later Than	TEST LOCATION	West Sa	lem, WI				pr.	

Arc (R) 64 100  Saranac (S) 0 100  SCORING SYSTEM:	6. PLANT COLOR (Determined for	om healthy regrowth 3 we	eks after first spr	ing cut, controlling le	eafhoppers if necessary	):		
APPLICATION VARIETY TEST LOCATION: 7. CHOWN TYPE Construence from assets plannings. 2. Necessary Types: 1 - 2 read (Versal) 2 recording types: 1 - 2 read (Versal) 3 - Nervow (CUF 101) Centre (Types) 4 - Company Stores: 5 - FLOWER COLOR (Deversion from such color data as allowed by USDA Agribustory Handbook Rive. 288 (Birers 1972), showing all planns in plin to Flower): 5 - FLOWER COLOR (Deversion from such color data as allowed by USDA Agribustory Handbook Rive. 288 (Birers 1972), showing all planns in plin to Flower): 5 - FLOWER COLOR (Deversion from such color data as allowed by USDA Agribustory Handbook Rive. 288 (Birers 1972), showing all planns in plin to Flower): 5 - FLOWER COLOR (Deversion from such color data as allowed by USDA Agribustory Handbook Rive. 288 (Birers 1972), showing all planns in plin to Flower): 5 - FLOWER COLOR (Deversion from such color (Burchase 21, 12, 2, 5 to 2.9) 5 - School (Curr India) 5 - FLOWER COLOR (Deversion from such color): 5 - FLOWER Color (Deversion from such color (Deversion from s	1 = Very Dark Green	(524)	2 = Dark Green (	Vernal)	3 = Light Green (R	anger)		
TEST LOCATION   TEST CONTROL   Tes								);
TEST TICESTANCE. Perceive constraints. Describe scoring systems. In Braze (Vernes) 2 - Insertmental (Suranus) 3 - Nervow (CUF 101)  2. Insertmental transpose places (Reposement) 3 - Nervow (CUF 101)  5. F. ADDRES COLOR, (Outstands requested places) (Suranus) (Suranu								<del></del>
2. SHOWN TYPE (Determined times speed plantings):   2	VERNAL:	· ····						
A NORMER COLOR December Properties   1 - Broad (Verteil)   2 - Intermediate (Sources)   5 - Fibblioanticus (Fibbrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus (Fibrioanticus)))   0								
### Counting Types: ### Counting Types: ### Counting Types: ### Counting Registery of plants for each color class as defined by UIDA Agricultural Handbook No. 43 (# Herms 1972), allowing all plants in plant to flower!  #### Counting Types: ### Counting Types: #### Counting Types: ##### Counting Types: #### Counting Types: #### Counting Types: ##### Counting Types: #### Counting Types: #### Counting Types: ##### Counting Types: #### Counting Types: ##### Counting Types: ###### Counting Types: ###### Counting Types: ######## Counting Types: ####################################			ergal}	2 = Intermediate (St	aranac) 3	= Narrow (CU	F 101)	
R   O   S   Purple and Violet (Budelasse 1,1 to 1.6)	<u> </u>							
R   O   S   Purple and Violet (Budelasse 1,1 to 1.6)		frequency of plants for ea	ach color class as	defined by USDA A	gricultural Handbook N	No. 424 (Barne	s 1972), allowing all	plants in plot to flower):
Scheme (Court 3)					1_1			
Description	1 0 % Variegated Oth	er Than Blue (Subclasses 2	1.1, 2.2, 2.5 to 2.5	3)	0 % Yellow (Sub	classes 4.1 to 4	.4)	
D. POD SHAPE (Desermine frequency of plants with the followings paid shapes produced on well arospositionated reasonal)  9   8   % Tighty Colled (One or more colls, center consplicationally open)  10. PEST RESISTANCE: Prode in the appropriate column, virial data for application variety, and solates (II) and assemptible (S) choic varieties, professing greaters, and any test desta for application variety, and solates (II) and assemptible (S) choic varieties, professing greaters, and any test desta for application variety, and solates (II) and assemptible (S) choic varieties, professing professing system, and any test procedure which differs from assended methods prosposed by Espa (1982). Tight data from other test years or elevation should be presented wherever wishing to an application. But presented wherever wishing the one particle of test and whether test is a field or laboratory related to presented wherever wishing the one particle of test presented wherever wishing the particle of test presented wherever wishing the one particle of test presented wherever wishing the one particle of test presented wherever wishing the present of test presented wherever wishing the present of test presented wherever wishing the present of test present of test presented wherever wishing the present of test present test pres	0 % Cream (Class 3)	)			0 % White (Class	5)		•
To, PEST RESISTANCE: Proceed in the appropriate column. Visit data for application veriety, and resistant (II) and assemptible (3) chock veriety and verification of the property of the process of the p		N: <u>Nampa, I</u>	daho			<u>—</u>		
Side (Less ton 1 col)   TEST QUATION: Nampa_Idaho	9. POD SHAPE (Determine frequ	ency of plants with the fo	llowing pod shap	es produced on well	cross-pollinated racem	es):		
10. PEST RESISTANCE:   Provide in the appropriate column, trial data for application variety, and costant (R) and assemptible (S) check variotise, synthetic generation tested, acrops severity index cooks (AB), lettis significant difference statistics (LBD 26), the institution or charge of text, ver. and location in forties and severy index cooks (AB), lettis significant difference statistics (LBD 26), the institution or charge of text, ver. and location in charge of text, ver. and location or forties and generated concerns a Establish C).    Control   Pest   Pes	98 % Tightly Coiled	One or more coils, center	more or less close	ed)	2 % Laosely Coil	ed (One or mo	re coils, center consp	icuously open)
index scores (ASI), less significant difference statistic (LSD .05), the institution in charge of text, year, and location of test, and whether test is a field of laboratory enablation. Describe scoring system, and ny test present, and any test present of the presented whether test is a field of laboratory enablation. Describe scoring system, and ny test presented whether test is a field of laboratory enablation on the test years or location of laboratory in the control of laboratory in the presented.  A DISEASE RESISTANCE:  DISEASE  VARIETY  SYN, GEN, TESTED  SYN, GEN, TESTED  SYN, GEN, TESTED  Application  1 55 100 12.2  FORGETY  PLANTS TESTED  ASI	% Sickle (Less tha	ın 1 coil)			TEST LOCATI	ом: <u>Na</u> п	npa, Idaho	
evaluation. Describe sorting system, and any test procedure which differs from standard methods proposed by Elpin (1982). Trial data from other test years or locations doubled by prepared whoever evalibles to a separate document in a Exhibit D.  Service of the check vertices and germplant lines listed below are politically that the USDA Field Crops Laboratory, Bidg, 001, Rm. 335, BARCWers, Betsville, MD. 20705. Although compations with deck vertices tools are profession with any appropriate holds writerly recommended by Elpin (1982) may be provided.  A. DISEASE RESISTANCE:  VARIETY  VARIETY  SYN, GEN, TESTED  PERCENT, TESTED  PLANTS TESTED  ASI  Asis								
Section of the check varieties pate before make decument as Exhibit D. Sects of the check varieties pate below can be cobained from the USDA Field Crops Laboratory, Bidg. 001, Rm. 325, BARC-West, Beltsville, MD 2016. Although comparisons with sheek varieties listed below are posterized, comparisons with any appropriate check variety recommended by Egin (1982) may be presented.  A. DISEASE   VARIETY   SYN, GEN, FERCENT FLANTS   PERCENT FLANTS TESTED   ASI   R48								
2076. Although comparisons with sheek varieties listed below are proformed, comparisons with any appropriate check wariety recommended by Eigin (1982) may be premisted.	location	ns should be presented whe	never available o	n a separate docume:	nt as Exhibit D.			
A. DISEASE RESISTANCE: DISEASE   VARIETY   SYN.GEN, TESTED   RESISTANT   PLANTS TESTED   ASI   ASI   LSD.05   INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY	20705.	Although comparisons wi						
DISEASE   VARIETY   TESTED   PLANTSTESTED   ASI   LSD.05   FIELD OR LABORATORY			SVALCEN	PERCENT	NUMBER OF		***	INSTITUTION VEAR LOCATION
Collectrichum trifolii	DISEASE	VARIETY				ASI		
Arc (R)   64   100		Application	1	55	100		12.2	Forage Genetics, 19
Scoring system:   Standard test - seedlings		Arc (R)		64	100			West Salem, WI Lab
Standard test - seedlings		Saranac (S)		0	100			
Anthracnose, Race 2 (Collectotrichum trifolii)  Saranac AR (R)  Arc (S)  SCORING SYSTEM:  Bacterial Wilt (Corynebacterium insidiosum)  Vernal (R)  Application  1 59 120 1.84 0.33 Forage Genetics, 15  Vernal (R)  42 120 2.58 West Salem WI Field  Narregansett (S)  SCORING SYSTEM:  Standard test - field  Common Leafspot (Pseudopeziza mediceginis)  MSA-CW3AN3 (R)  Ranger (S)	•	1 '	,		•			
Application   Saranac AR (R)		Standard	test - s	eedlings	·	<u> </u>	<u></u>	· .
Arc (S)   SCORING SYSTEM:		Application						
SCORING SYSTEM:		Saranac AR (R)						
Bacterial Wilt (Corynebacterium insidiosum)		Arc (S)					1	
Bacterial Wilt (Corynebacterium insidiosum)		SCOBING SYSTEM:				<u> </u>	1	
Application   1   59   120   1.84   0.33   Forage Genetics, 19								
A2   120   2.58		Application	1	59	120	1.84	0.33	Forage Genetics, 19
Common Leafspot   Standard test - field		Vernal (R)		42	1.20	2.58		West Salem WI Field
SCORING SYSTEM:  Standard test - field  Common Leafspot (Pseudopeziza medicaginis)  Application  MSA-CW3AN3 (R)  Ranger (S)		Narragansett (S)		0	120	4.32	- - - -	
Common Leafspot (Pseudopeziza medicaginis)  Application  MSA-CW3AN3 (R)  Ranger (S)		SCORING SYSTEM:			1 220	1702	<u> </u>	
(Pseudopeziza medicaginis) Application MSA-CW3AN3 (R) Ranger (S)			Standard	test - fi	ield			
Ranger (S)		Application						
		MSA-CW3AN3 (R)						
SCORING SYSTEM:	**	Ranger (S)	******					
	·	SCORING SYSTEM:	l			I		

O. A. PEST RESISTANCE (Cont	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY	
Downy Mildew (Peronospora trifoliorum)	Application			,				
Isolate, if known:	Saranac (R)	<u> </u>						
	Kanza (S)							
	SCORING SYSTEM:		,-	<del></del>				
Fusarium Wilt (Fusarium oxysporum f. medicaginis)	Application	1	59	120	2.06	0.32	Forage Genetics 1	
	Моара <b>69</b> (R)	···	54	120	2.17		West Salem, WI Fi	
•	Narragansett (R)		7	120	3.98			
	SCORING SYSTEM:	Standard	d Field te	st				
Phytophthora Root Rot (Phytophthora megasperma f, medicaginis)	Application	1	67	100		10.6	Forage Genetics 19 West Salem, WI Lab	
	Agate (R)		43	100		west galen		west parem, wi Lau
	Saranac (S)		0	100			200	
·	SCORING SYSTEM:	% Si	rvival, s	eedling tes	t			
Verticillium Wilt (Verticillium alboatrum)	Application	1	42	100	2.29	(	Forage Genetics,	
	Vertus (R)	-	40	100	2.33		West Salem, WI La	
	Saranac (S)		0	100	3.89			
• '	SCORING SYSTEM:	tandard t	est - gre	enhouse				
Other (Specify)	Application	1 .	54	100		10.3	Forage Genetics,	
Aphanomyces root	(R) WAPH1	_	50	100			West Salem, WI Lab	
rot (race 1) (A. eutriches)	<sup>(S)</sup> Agate		2	100				
	SCORING SYSTEM:		<del> </del>	•				
Other (Specify)	Application					-		
	(R)							
	(S)							
	SCORING SYSTEM:		J					
INSECT RESISTANCE:	VARIETY	SYN. GEN. TESTED	PERCENT DEFOLIATION	DEFOLIATION IN PERCENT OF RESISTANT CHECK	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY	
Alfalfa Weevil (Hypera postica)	Application						-	
	Arc (R)	<u> </u>		100				
	Saranac (S)	TT-TIBLE						
	SCORING SYSTEM:	i	*		<u> </u>		1	

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT SEEDLING SURVIVAL	NUMBER OF SEEDLINGS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Blue Alfalfa Aphid (Acyrthosiphon kondoi)	Application						
*.	CUF 101 (R)					·	
	PA-1 (S)	•					
	SCORING SYSTEM:				:- ·		
Pea Aphid (Acyrthosiphon pisum)	Application	1	51	100		9.6	Forage Genetics,
	Kamada Bake	r	45	100			Nampa, Id Lab
	Ranger 16# Ver	nal	6	100			
	SCORING SYSTEM:	Standard	l test				
Spotted Alfalfa Aphid (Therioaphis maculata)	Application	1	65	100		16.2	Forage Genetics, 19
Biotype, if known:	Karga (泉)。 Bal	ker	50	100			Nampa, ID Lab
	#Number#S** Rai	nger	4	100			
	scoring system: Stand	dard Test		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
INSECT	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Potato Leafhopper Yellowing (Empoasca fabae)	Application	·					
	MSA-CW3An3 (R)						
·.	Ranger (S)		·_				
	SCORING SYSTEM:			·			
Other (Specify)	Application		·				
	(R)						
	(s)						
	SCORING SYSTEM:						
NEMATODE RESISTANCE:	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Northern Root Knot Meloidogyne hapla)	Application						
	Nev. Syn. XX (R)						
				····			1

8

NEMATODE	VARIETY	SYN, GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05		, YEAR, LOCATION LABORATORY
Southern Root Knot (Meloidogyne incognita)	Application							
	Moapa 69 (R)	·						
	Lahontan (S)							
,	SCORING SYSTEM:				·			
Stem Nematode (Ditylenchus dipsaci)	Application	1	18	120	3.15	0.21		genetics, ID Lab
ere y	rštvěuštati 行的 * A	ernema	52	120	2.57		wampa,	то пар
	Ranger (S)		8	120	3.89			
	SCORING SYSTEM:							· · · · · · · · · · · · · · · · · · ·
Other (Specify)	Application							
	(R)			·				
	(S)							

11. INDICATE THE VARIETY THAT MOST	CLOSELY RESEMBLES THE APPL	ICATION VARIETY FOR	REACH OF THE	FOLLOWING CH	ARACTERS:

CHARACTER	VARIETY	CHARACTER	VARIETY	
Winterhardiness.	DK-133	 Plant Color	Apollo Supreme	
Recovery After 1st Cut	DK-133	Crown Type	Legen Dairy	
Area of Adaptation	MultiKing 1	Combined Disease Resistance	DK-133	
Flowering Date	Fortress	Combined Insect Resistance	DK-133	

#### REFERENCES

Barnes, D.K. 1972. A System for Visually Classifying Alfalfa Flower Color. U.S. Dep. Agric. Handb. 424. 18 pp. (Note: Greenish cast of plate 6, A and B is an artifact of printing, actual colors a blend of yellow and white.)

Elgin, J.H., Jr., (ed.). 1982. Standard Tests to Characterize Pest Resistance in Alfalfa Cultivars, U.S. Dep. Agric. Tech. Bull. (In Press).

Gunn, C.R., W.H. Skrdla, and H.C. Spencer. 1978. Classification of Medicago sativa L. using legume characters and flower colors. U.S. Dep. Agric. Tech. Bull. 1574. 84 pp.

Munsell Color Co. 1977. Munsell Plant Tissue Color Charts. Munsell Color Co., Inc. Baltimore.

NOTE: Any additional descriptive information and supporting documentation may be provided as Exhibit D.

REPRODUCE LOCALLY: Include form number and date on all reproductions.	FORM APPROVED - OMB I	NO. 0581-0055 EXPIRES: 12-31
W.S. DEPARTMENT OF A GRECULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE	The following statements are ma 1974 (5 U.S.C. 552a) and the Pa	de in accordance with the Privacy Act perwork Reduction Act (PRA) of 1995 .
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order of certificate is to be issued (7 U.S. until certificate is issued (7 U.S.C	to determine if a plant variety protect C. 2421). Information is held confiden . 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Northrup King Co.	OR EXPERIMENTAL NUMBER	Rushmore
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	E CAY
.O. Box 959	The state of the s	6. FAX (include area code)
nneapolis, MN 55440	(612) 593-7261 7. PVPO NUMBER	(612) 593-7389
	9500077	
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	X YES NO
9. Is the applicant (individual or company) a U.S. national or U.S. based compan	ė.	
If no, give name of country	······································	X YES NO
10. Is the applicant the original breeder? If no, please answer the following:		YES X NO
<ul> <li>a. If original rights to variety were owned by individual(s):</li> <li>Is (are) the original breeder(s) a U.S. national(s)? If no, give name of our properties of the original breeder(s) a U.S. national(s)?</li> </ul>	country	
<ul> <li>b. If original rights to variety were owned by a company:</li> <li>ls the original breeder(s) U.S. based company? If no, give name of co</li> </ul>	untry	K YES NO
11. Additional explantion on ownership (If needed, use reverse for extra space):		
		•
PLEASE NOTE:		
	one of the following criteria:	
lant variety protection can be afforded only to owners (not licensees) who meet o	be a U.S. national, national of a t	JPOV member country, or nationa
lant variety protection can be afforded only to owners (not licensees) who meet of the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the said	be a U.S. national, national of a lone genus and species.	t be U.S. based, owned by
. If the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by nationals of a country which	be a U.S. national, national of a lone genus and species.  Inal breeder(s), the company must a affords similar protection to nation	t be U.S. based, owned by onals of the U.S. for the same

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, ege, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braile, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791.

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

REPRODUCE LOCALLY. Include form number and date on all reproductions.	FORM APPROVED - OMB NO. 0581-0055 EXPIRES: 12-31-96				
STATEMENT OF THE BASIS OF OWNERSHIP	The following statements are made in accordance with the Privacy 1974 (5 U.S.C. 552s) and the Paperwork Reduction Act (PRA) of 15 Application is required in order to determine if a plant variety proceedings to be issued (7 U.S.C. 2421). Information is held confunctionate is issued (7 U.S.C. 2421).				
Novartis Seeds, Inc	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER FG 4J16	3. VARIETY NAME Rushmore			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 7500 Olson Memorial Hwy Golden Valley, MN 55427	5. TELEPHONE (include area code) (612) 593-7333 7. PVPO NUMBER 9500077	6. FAX include area code! (612) 593-7801			
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	X YES NO			
Is the applicant (individual or company) a U.S. national or U.S. based company if no, give name of country	γ?	XYES NO			
<ul> <li>10. Is the applicant the original breeder? If no, please answer the following:</li> <li>a. If original rights to variety were owned by individual(s):</li> <li>Is (are) the original breeder(s) a U.S. national(s)? If no, give name of</li> </ul>	country	YES X NO			
<ul> <li>b. If original rights to variety were owned by a company:</li> <li>Is the original breeder(s) U.S. based company? If no, give name of company?</li> </ul>	ountry	XYES NO			
11. Additional explantion on ownership (If needed, use reverse for extra space): Attached letters from Dr. Mark McCaslin of January 8, 1997 document ownership.		1, 1996 and			
PLEASE NOTE:					
Plant variety protection can be afforded only to owners (not licensees) who meet	one of the following criteria:				
<ol> <li>If the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the sa</li> </ol>		UPOV member country, or national			
<ol> <li>If the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by nationals of a country which genus and species.</li> </ol>	ginal breeder(s), the company mu th affords similar protection to na	st be U.S. based, owned by tionals of the U.S. for the same			

3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (2021 720-2791.

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

Addendin to Edulait E AAA (per letter) of See 196

The alfalfa (*Medicago sativa* L.) variety "Rushmore" was developed by Dr. Mark McCaslin, and employee of Forage Genetics. As a condition of employment, said employee has agreed that all rights to the variety "Rushmore" are transferred to Forage Genetics, with no rights to the variety retained by the employee. Forage Genetics has licensed certain rights to Northrup King. These include: worldwide marketing rights, the right to commercial seed production, the right to name the variety and to independently develop programs for the marketing and sale of the variety, the right to file for Plant Variety Protection of the variety and the right to represent the variety in international variety registration. These rights for the alfalfa variety "Rushmore" have been assigned to Northrup King on an exclusive basis.

Sincerely,

Mark McCaslin

President

cc: Jan Johnson, Northrup King